



FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

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ATTY. DOCKET NO.  
1327.0690001/ELE/LAVAPPLICATION NO.  
10/525,415 (U.S. National Phase  
of PCT/US2003/028100, Filed  
September 9, 2003)FIRST NAMED INVENTOR  
MacPhee, MartinFILING DATE  
January 10, 2006ART UNIT  
2811

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| EXAMINER<br>INITIAL |     | DOCUMENT NUMBER | DATE       | NAME                    | CLASS | SUB-CLASS | FILING DATE |
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|                     | AA1 | 2,533,004       | 12/05/1950 | Ferry <i>et al.</i>     |       |           | 10/27/1943  |
|                     | AB1 | 3,089,815       | 05/14/1963 | Lieb <i>et al.</i>      |       |           | 10/11/1951  |
|                     | AC1 | 3,523,807       | 08/11/1970 | Gerendas, M.            |       |           | 11/25/1966  |
|                     | AD1 | 3,723,244       | 03/27/1973 | Breillatt, Jr.          |       |           | 01/18/1971  |
|                     | AE1 | 4,265,233       | 05/05/1981 | Sugitachi <i>et al.</i> |       |           | 04/06/1979  |
|                     | AF1 | 4,298,598       | 11/03/1981 | Schwarz <i>et al.</i>   |       |           | 02/04/1980  |
|                     | AG1 | 4,321,711       | 03/30/1982 | Mano, H.                |       |           | 10/12/1979  |
|                     | AH1 | 4,359,049       | 11/16/1982 | Redl <i>et al.</i>      |       |           | 03/23/1981  |
|                     | AI1 | 4,362,567       | 12/07/1982 | Schwarz <i>et al.</i>   |       |           | 02/04/1980  |
|                     | AJ1 | 4,373,519       | 02/15/1983 | Errede <i>et al.</i>    |       |           | 06/26/1981  |
|                     | AK1 | 4,377,159       | 03/22/1983 | Hansen, P.E.            |       |           | 06/29/1981  |

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|                     | AL1 | JP 54-104687 A  | 08/17/1979 | Japan         |       |           | Yes<br>X No |
|                     | AM1 | GB 2 042 556 A  | 09/24/1980 | Great Britain |       |           | Yes<br>No   |
|                     | AN1 | GB 2 041 942    | 09/24/1980 | Great Britain |       |           | Yes<br>No   |
|                     | AO1 | GB 1 584 080    | 02/04/1981 | Great Britain |       |           | Yes<br>No   |
|                     | AP1 | WO 81/00516 A1  | 03/05/1981 | WIPO          |       |           | Yes<br>X No |

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|  | AR | 1 | Achauer, B.M., <i>et al.</i> , "The Hemostatic Effect of Fibrin Glue on Graft Donor Sites," <i>J. Burn Care Rehabil.</i> 15:24-28, Burn Science Publishers, Inc. (1994)  |
|  | AS | 1 | Adelmann-Grill, B.C., <i>et al.</i> , "Chemotactic migration of normal dermal fibroblasts towards epidermal growth factor and its modulation by platelet-derived growth factor and transforming growth factor-beta," <i>Eur. J. Cell. Biol.</i> 51:322-326, Wissenschaftliche Verlagsgesellschaft mbH (1990) |
|  | AT | 1 | Áfra, D., <i>et al.</i> , "Experimentelle Untersuchung der Resorption von Fibrinfilmen und ihre Anwendung in der neurochirurgischen Praxis", <i>Acta Med. Acad. Sci. Hung.</i> 11:1-29, Hungarian Academy of Sciences (1958)   |

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|                     | AA2 | 4,377,572       | 03/22/1983 | Schwarz <i>et al.</i>     |       |           | 07/07/1981  |
|                     | AB2 | 4,393,041       | 07/12/1983 | Brown <i>et al.</i>       |       |           | 04/25/1980  |
|                     | AC2 | 4,394,370       | 07/19/1983 | Jefferies, S.R.           |       |           | 09/21/1981  |
|                     | AD2 | 4,407,787       | 10/04/1983 | Stemberger, A.            |       |           | 09/21/1981  |
|                     | AE2 | 4,414,976       | 11/15/1983 | Schwarz <i>et al.</i>     |       |           | 09/13/1982  |
|                     | AF2 | 4,427,650       | 01/24/1984 | Stroetmann, M.            |       |           | 06/07/1982  |
|                     | AG2 | 4,427,651       | 01/24/1984 | Stroetmann, M.            |       |           | 06/07/1982  |
|                     | AH2 | 4,442,655       | 04/17/1984 | Stroetmann, M.            |       |           | 06/25/1982  |
|                     | AI2 | 4,453,939       | 06/12/1984 | Zimmerman <i>et al.</i>   |       |           | 02/11/1982  |
|                     | AJ2 | 4,472,840       | 09/25/1984 | Jefferies, S.R.           |       |           | 09/30/1982  |
|                     | AK2 | 4,516,276       | 05/14/1985 | Mittelmeier <i>et al.</i> |       |           | 03/26/1984  |

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|                     | AL2 | CA 1,119,516    | 03/09/1982 | Canada        |       |           | Yes<br>No   |
|                     | AM2 | DE 3,037,270 A  | 05/19/1982 | Germany       |       |           | Yes<br>X No |
|                     | AN2 | AU-B-83581/82   | 11/18/1982 | Australia     |       |           | Yes<br>No   |
|                     | AO2 | GB 2 102 811 A  | 02/09/1983 | Great Britain |       |           | Yes<br>No   |
|                     | AP2 | EP 0 090 997 A2 | 10/12/1983 | Europe        |       |           | Yes<br>X No |

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|  | AR | 2 | Akrami, R., <i>et al.</i> , "Replacement of the Thoracic Aorta by Sealed Dacron Prostheses," <i>Thoraxchirurgie</i> 26:144-147, Georg Thieme Verlag Stuttgart (1978)  |
|  | AS | 2 | Albrektsson, T., <i>et al.</i> , "Fibrin Adhesive System (FAS) Influence on Bone Healing Rate," <i>Acta Orthop. Scand.</i> 53:757-763, Munksgaard (1982)  |
|  | AT | 2 | Allen, B.T., <i>et al.</i> , "Influence of endothelial cell seeding on platelet deposition and patency in small-diameter Dacron arterial grafts," <i>J. Vasc. Surg.</i> 1:224-233, Mosby-Year Book Inc.(1984) |

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|                     | AA3 | 4,548,763       | 10/22/1985 | Nalewajek <i>et al.</i>  |       |           | 12/05/1983  |
|                     | AB3 | 4,597,960       | 07/01/1986 | Cohen, E.C.              |       |           | 06/03/1983  |
|                     | AC3 | 4,600,574       | 07/15/1986 | Lindner <i>et al.</i>    |       |           | 03/21/1984  |
|                     | AD3 | 4,606,337       | 08/19/1986 | Zimmermann <i>et al.</i> |       |           | 04/19/1983  |
|                     | AE3 | 4,617,293       | 10/14/1986 | Wahlig <i>et al.</i>     |       |           | 05/23/1984  |
|                     | AF3 | 4,619,913       | 10/28/1986 | Luck <i>et al.</i>       |       |           | 05/21/1985  |
|                     | AG3 | 4,619,989       | 10/28/1986 | Urist, M.R.              |       |           | 08/16/1983  |
|                     | AH3 | 4,627,879       | 12/09/1986 | Rose <i>et al.</i>       |       |           | 01/03/1985  |
|                     | AI3 | 4,631,055       | 12/23/1986 | Redl <i>et al.</i>       |       |           | 02/26/1985  |
|                     | AJ3 | 4,642,120       | 02/10/1987 | Nevo <i>et al.</i>       |       |           | 03/21/1984  |
|                     | AK3 | 4,714,457       | 12/22/1987 | Alterbaum, R.            |       |           | 09/15/1986  |

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|                     | AM3 | GB 2 137 209 A  | 10/03/1984 | Great Britain |       |           | Yes<br>No   |
|                     | AN3 | JP 60-204725 A  | 10/16/1985 | Japan         |       |           | Yes<br>X No |
|                     | AO3 | AU-B-43122/85   | 12/05/1985 | Australia     |       |           | Yes<br>No   |
|                     | AP3 | WO 86/00526 A1  | 01/30/1986 | WIPO          |       |           | Yes<br>No   |

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| AS | <u>3</u> | Andreassen, T.T., and Jorgensen, P.H., "Biomechanical Properties and Collagen Formation in Subcutaneously Implanted Cellulose Sponges Treated with Fibrin Sealant," <i>Eur. surg. Res.</i> 17:264-268, S.Karger AG (1985)       |
| AT | <u>3</u> | Arbes, H., <i>et al.</i> , "First Clinical Experience with Heterologous Cancellous Bone Grafting Combined with the Fibrin Adhesive System (F.A.S.)," <i>Arch. Orthop. Traumat. Surg.</i> 98:183-188, J.F.Bergmann Verlag (1981) |

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|                     | AA4 | 4,717,717       | 01/05/1988 | Finkenauf, A.L.          |       |           | 11/05/1986  |
|                     | AB4 | 4,761,471       | 08/02/1988 | Urist, M.R.              |       |           | 08/22/1986  |
|                     | AC4 | 4,789,732       | 12/06/1988 | Urist, M.R.              |       |           | 03/09/1988  |
|                     | AD4 | 4,816,339       | 03/28/1989 | Tu <i>et al.</i>         |       |           | 04/28/1987  |
|                     | AE4 | 4,820,626       | 04/11/1989 | Williams <i>et al.</i>   |       |           | 06/06/1985  |
|                     | AF4 | 4,837,379       | 06/06/1989 | Weinberg, C.B.           |       |           | 06/02/1988  |
|                     | AG4 | 4,861,757       | 08/29/1989 | Antoniades <i>et al.</i> |       |           | 11/16/1987  |
|                     | AH4 | 4,874,746       | 10/17/1989 | Antoniades <i>et al.</i> |       |           | 12/22/1987  |
|                     | AI4 | 4,909,251       | 03/20/1990 | Seelich, T.              |       |           | 05/31/1989  |
|                     | AJ4 | 4,928,603       | 05/29/1990 | Rose <i>et al.</i>       |       |           | 06/06/1988  |
|                     | AK4 | 4,952,403       | 08/28/1990 | Vallee <i>et al.</i>     |       |           | 06/08/1988  |

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|                     | AL4 | WO 86/01814 A1  | 03/27/1986 | WIPO          |       |           | Yes<br>No   |
|                     | AM4 | WO 86/03122 A1  | 06/05/1986 | WIPO          |       |           | Yes<br>No   |
|                     | AN4 | GB 2 185 747 A  | 07/29/1987 | Great Britain |       |           | Yes<br>No   |
|                     | AO4 | JP 62-246370 A  | 10/27/1987 | Japan         |       |           | X Yes<br>No |
|                     | AP4 | EP 0 081 990 A1 | 06/22/1983 | Europe        |       |           | Yes<br>No   |

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|  | AR | <u>4</u> | Bagdy, D., <i>et al.</i> , "Application of Bovine Fibrin Foam and of a Mixture of Thrombin and Fibrin Powders as Haemostatic Agents," <i>Acta. Physiol. Acad. Sci. Hung.</i> 2:493-504, Magyar Tudományos Akadémia (1951)  |
|  | AS | <u>4</u> | Bagdy, D., <i>et al.</i> , "Experimentelle und klinische Anwendung der aus Rinderplasma hergestellten Fibrinprodukte," <i>Zentralblatt für Chirurgie</i> 77:848-852, Vereinigung Mittelrheinischer Chirurgen (1952)  |
|  | AT | <u>4</u> | Bagdy, D., <i>et al.</i> , "Die klinische Anwendung von Thrombin-Fibrinpulver. Die Anwendung von Fibrinfilmen und Fibrinröhren bei peripheren Nervennähten," in <i>Trombin-Fibrinprodukte und Ihre Therapeutische Anwendung</i> , Veb Gustav Fischer Verlag Jena, Germany, pp. 152-159, pp. 184-187 (1963) |

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|                     | AA5 | RE33,375        | 10/09/1990 | Luck <i>et al.</i>       |       |           | 10/11/1988  |
|                     | AB5 | 4,969,880       | 11/13/1990 | Zamierowski, D.S.        |       |           | 04/03/1989  |
|                     | AC5 | 4,997,425       | 03/05/1991 | Shioya <i>et al.</i>     |       |           | 03/29/1990  |
|                     | AD5 | 4,983,581       | 01/08/1991 | Antoniades <i>et al.</i> |       |           | 05/20/1988  |
|                     | AE5 | 5,019,559       | 05/28/1991 | Antoniades <i>et al.</i> |       |           | 11/16/1988  |
|                     | AF5 | 5,023,082       | 06/11/1991 | Friedman <i>et al.</i>   |       |           | 03/30/1988  |
|                     | AG5 | 5,024,742       | 06/18/1991 | Nesburn <i>et al.</i>    |       |           | 02/24/1988  |
|                     | AH5 | 5,030,215       | 07/09/1991 | Morse <i>et al.</i>      |       |           | 01/03/1990  |
|                     | AI5 | 5,034,375       | 07/23/1991 | Antoniades <i>et al.</i> |       |           | 08/10/1988  |
|                     | AJ5 | 5,035,887       | 07/30/1991 | Antoniades <i>et al.</i> |       |           | 09/07/1989  |
|                     | AK5 | 5,059,123       | 10/22/1991 | Jernberg, G.R.           |       |           | 10/18/1990  |

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|                     | AL5 | AU-B-75097/87   | 01/07/1988 | Australia |       |           | Yes<br>No   |
|                     | AM5 | JP 63-115564 A  | 05/20/1988 | Japan     |       |           | X Yes<br>No |
|                     | AN5 | EP 0 312 208 A1 | 04/19/1989 | Europe    |       |           | Yes<br>No   |
|                     | AO5 | WO 91/09573 A1  | 07/11/1991 | WIPO      |       |           | Yes<br>No   |
|                     | AP5 | EP 0 443 724 A1 | 08/28/1991 | Europe    |       |           | Yes<br>No   |

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|  | AR | <u>5</u> | Bailey, O.T., and Ingraham, F.D., "Chemical, Clinical, and Immunological Studies on the Products of Human Plasma Fractionation. XXI. The Use of Fibrin Foam as Hemostatic Agent in Neurosurgery: Clinical and Pathological Studies," <i>J. Clin. Invest.</i> 23:591-596, The American Society for Clinical Investigation (1944)  |
|  | AS | <u>5</u> | Bailey, O.T., and Ingraham, F.D., "Chemical, Clinical, and Immunological Studies on the Products of Human Plasma Fractionation. XXII. Fibrin Films in Neurosurgery, with Special Reference to Their Use in the Repair of Dural Defects and in the Prevention of Meningocerebral Adhesions," <i>J. Clin. Invest.</i> 23:597-600, The American Society for Clinical Investigation (1944) |
|  | AT | <u>5</u> | Bailey, O.T., <i>et al.</i> , "Fibrin Film in Neurosurgery, Further Studies: The Insertion of Fibrin Film Between the Sutured Dura and The Intact Leptomeninges; The Effect of Roentgen Therapy on Tissue Reactions to Fibrin Film," <i>J. Neurosurg.</i> 4:465-471, American Association of Neurological Surgeons (1947)  |

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|                     | AA6 | 5,100,396       | 03/31/1992 | Zamierowski, D.S.     |       |           | 04/03/1990  |
|                     | AB6 | 5,171,579       | 12/15/1992 | Ron <i>et al.</i>     |       |           | 10/11/1991  |
|                     | AC6 | 5,124,155       | 06/23/1992 | Reich, C.             |       |           | 09/17/1990  |
|                     | AD6 | 5,139,527       | 08/18/1992 | Redl <i>et al.</i>    |       |           | 08/06/1990  |
|                     | AE6 | 5,171,318       | 12/15/1992 | Gibson <i>et al.</i>  |       |           | 01/21/1992  |
|                     | AF6 | 5,171,579       | 12/15/1992 | Ron <i>et al.</i>     |       |           | 10/11/1991  |
|                     | AG6 | 5,206,023       | 04/27/1993 | Hunziker, E.B.        |       |           | 01/31/1991  |
|                     | AH6 | 5,219,328       | 06/15/1993 | Morse <i>et al.</i>   |       |           | 01/03/1990  |
|                     | AI6 | 5,226,877       | 07/13/1993 | Epstein, G.H.         |       |           | 06/23/1989  |
|                     | AJ6 | 5,290,552       | 03/01/1994 | Sierra <i>et al.</i>  |       |           | 03/23/1992  |
|                     | AK6 | 5,294,314       | 03/15/1994 | Nesburn <i>et al.</i> |       |           | 02/22/1991  |

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|                     | AL6 | WO 91/17744 A1  | 11/28/1991 | WIPO    |       |           | Yes<br>No   |
|                     | AM6 | EP 0 485 210 A2 | 05/13/1992 | Europe  |       |           | Yes<br>No   |
|                     | AN6 | WO 92/09697 A1  | 06/11/1992 | WIPO    |       |           | Yes<br>No   |
|                     | AO6 | WO 92/09301 A1  | 06/11/1992 | WIPO    |       |           | Yes<br>No   |
|                     | AP6 | WO 92/13565 A1  | 08/20/1992 | WIPO    |       |           | Yes<br>No   |

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|  | AS | <u>6</u> | Berger, K., <i>et al.</i> , "Healing of Arterial Prostheses in Man: Its Incompleteness," <i>Ann. Surg.</i> 175:118-127, J.B. Lippincott Company (1972)   |
|  | AT | <u>6</u> | Bishara, S.E., <i>et al.</i> , "Effects of a Fibrin-Sealant Wound Dressing on the Healing of Full-Thickness Wounds of the Hard Palate: Preliminary Report," <i>Cleft Palate J.</i> 23:144-152, Allen Press Inc. (1986) |

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|                     | AJ  |                 |            |                           |       |           |             |
|                     | AK  |                 |            |                           |       |           |             |

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|                     | AM7 | WO 93/05067 A1  | 03/18/1993 | WIPO    |       |           | Yes<br>No   |
|                     | AN7 | EP 0 562 864 A1 | 09/29/1993 | Europe  |       |           | Yes<br>No   |
|                     | AO7 | WO 94/20133     | 09/15/1994 | WIPO    |       |           | Yes<br>No   |
|                     | AP7 | WO 97/28832     | 08/14/1997 | WIPO    |       |           | Yes<br>No   |

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FORM PTO-1449

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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|--|----|----------|---|
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|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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| FORM PTO-1449<br><b>INFORMATION DISCLOSURE STATEMENT</b> | ATTY. DOCKET NO.<br>1327.0690001/ELE/LAV | APPLICATION NO.<br>10/525,415 (U.S. National Phase<br>of PCT/US2003/028100, Filed<br>September 9, 2003) |
|  | FIRST NAMED INVENTOR<br>MacPhee, Martin  |   |
|  | FILING DATE<br>January 10, 2006          | ART UNIT<br>2811  |

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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|--|----|-----------|--|
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|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

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## FOREIGN PATENT DOCUMENTS

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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|                     | AP |                 |      |         |       |           | Yes<br>No   |

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

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|  |    |           |  |
|--|----|-----------|--|
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|                     | AO |                 |      |         |       |           | Yes<br>No   |
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|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

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|  | FIRST NAMED INVENTOR<br>MacPhee, Martin  |   |
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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|                     | AL |                 |      |         |       |           | Yes<br>No   |
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|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

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|--|----|-----------|--|
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|  | AT | <u>28</u> | Ingraham, F.D., <i>et al.</i> , "The Use of Fibrin Film as Dural Substitute and in the Prevention of Meningocerebral Adhesions. Further Studies and Clinical Results," <i>J.A.M.A.</i> 128:1088-1091, The American Medical Association (1945)  |

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|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|  | AT | <u>38</u> | Lasa, C.I., <i>et al.</i> , "Effect of Fibrin Glue and Opsite on Open Wounds in DB/DB Mice," <i>J. Surg. Res.</i> 54:202-206, Academic Press, Inc. (1993)  |

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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

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|  | AT | <u>45</u> | Mustoe, T.A., <i>et al.</i> , "Accelerated Healing of Incisional Wounds in Rats Induced by Transforming Growth Factor- $\beta$ ," <i>Science</i> 237:1333-1336, American Association for the Advancement of Science (1987)  |

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|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

|  |    |           |  |
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|  | AR | <u>48</u> | Puumala, M., <i>et al.</i> , "Intraventricular infusion of HBGF-2 promotes cerebral angiogenesis in Wistar Rat," <i>Brain Res.</i> 534:283-286, Elsevier Science Publishers B.V. (1990)            |
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|  | FIRST NAMED INVENTOR<br>MacPhee, Martin  |   |
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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|  | AS | <u>51</u> | Schlag, G., and Redl, H.G., "Fibrin Sealant in Orthopedic Surgery," <i>Clin. Orthop.</i> 227:269-285, Lippincott Williams & Wilkins (1988)  |
|  | AT | <u>51</u> | Schrenk, P., <i>et al.</i> , "Fibrin Glue Coating of e-PTFE Prostheses Enhances Seeding of Human Endothelial Cells," <i>Thorac. Cardiovasc. Surgeon</i> 35:6-10, Georg Thieme Verlag Stuttgart (1987) |

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|                     | AL |                 |      |         |       |           | Yes<br>No   |
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|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|  | AR | <u>52</u> | Schultz, G.S., <i>et al.</i> , "Epithelial Wound Healing Enhanced by Transforming Growth Factor- $\alpha$ and Vaccinia Growth Factor," <i>Science</i> 235:350-352, American Association for the Advancement of Science (1987) |
|  | AS | <u>52</u> | Schwarz, N., <i>et al.</i> , "The Influence of Fibrin Sealant on Demineralized Bone Matrix-Dependent Osteoinduction," <i>Clin. Orthop.</i> 238:282-287, Lippincott Williams & Wilkins (1989)                                  |
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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |           |   |
|--|----|-----------|---|
|  | AR | <u>53</u> | Sheehan, J.E., "Plasma Fixation of Skin Grafts," <i>Am. J. Surg.</i> 65:74-78, The American Journal of Surgery, Inc. (1944)   |
|  | AS | <u>53</u> | Shindo, S., <i>et al.</i> , "Improved patency of collagen-impregnated grafts after in vitro autogenous endothelial cell seeding," <i>J. Vasc. Surg.</i> 6:325-332, Mosby-Year Book, Inc. (1987)                                     |
|  | AT | <u>53</u> | Shoemaker, S.C., <i>et al.</i> , "Effects of fibrin sealant on incorporation of autograft and xenograft tendons within bone tunnels," <i>Am. J. Sports Med.</i> 17:318-324, American Orthopaedic Society for Sports Medicine (1989) |

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|  | AS | <u>54</u> | Silberstein, L.E., et al., "An autologous fibrinogen-based adhesive for use in otologic surgery," <i>Transfusion</i> 28:319-321, American Association of Blood Banks (1988)                              |
|  | AT | <u>54</u> | Spotnitz, W.D., et al., "Fibrin Glue from Stored Human Plasma. An Inexpensive and Efficient Method for Local Blood Bank Preparation," <i>Am. Surg.</i> 53:460-462, Southeastern Surgical Congress (1987) |

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|--|----|-----------|---|
|  | AR | <u>55</u> | Sprugel, K.H., <i>et al.</i> , "The Effects of Different Growth Factors in Subcutaneous Wound Chambers," in <i>Growth Factors and Other Aspects of Wound Healing: Biological and Clinical Implications</i> , Barbul, A., <i>et al.</i> , eds., Alan R. Liss, Inc., New York, NY, pp. 77-91 (1988) |
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|  | AT | <u>55</u> | Stemberger, A., and Blümel, G., "Fibrinogen-Fibrin Conversion and Inhibition of Fibrinolysis," <i>Thorac. Cardiovasc. Surgeon</i> 30:209-214, Georg Thieme Verlag Stuttgart (1982)  |

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|                     | AP |                 |      |         |       |           | Yes<br>No   |

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FORM PTO-1449

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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|  | FIRST NAMED INVENTOR<br>MacPhee, Martin  |   |
|  | FILING DATE<br>January 10, 2006          | ART UNIT<br>2811  |

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|                     | AA |                 |      |      |       |           |             |
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## FOREIGN PATENT DOCUMENTS

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|---------------------|----|-----------------|------|---------|-------|-----------|-------------|
|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |           |  |
|--|----|-----------|--|
|  | AR | <u>65</u> | Zilch, H., <i>et al.</i> , "Diffusionsverhalten von Cefotaxim aus der Fibrin-Antibiotika-Plombe im Tierversuch," in Fibrinkleber in Orthopadie und Traumatologie, Cotta <i>et al.</i> , eds., Georg Thieme Verlag, Stuttgart, pp. 191-195 (1982) |
|  | AS | <u>65</u> | Zilch, H., and Lambris, E., "The Sustained Release of Cefotaxim from a Fibrin-Cefotaxim Compound in Treatment of Osteitis," <i>Arch. Orthop. Trauma Surg.</i> 106:36-41, Springer-Verlag (1986)  |
|  | AT | <u>65</u> | Dialog® File No. 351, Accession No. 2271477, Derwent WPI English language abstract of JP 54-104687 (document AL1)  |

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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

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|--|----|-----------|---|
|  | AR | <u>66</u> | Dialog® File No. 351, Accession No. 3493656, Derwent WPI English language abstract of DE 3,037,270 (document AM2) |
|  | AS | <u>66</u> | Dialog® File No. 351, Accession No. 4485878, Derwent WPI English language abstract of JP 60-204725 (document AN3) |
|  | AT | <u>66</u> | Dialog® File 351, Accession No. 3793917, Derwent WPI English language abstract of EP 0 090 997 A2 (document AP2)  |

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|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|  |    |           |   |
|--|----|-----------|---|
|  | AR | <u>67</u> | English translation of JP 62-246370, translated by Translation Services PTY Ltd, translation dated March 6, 2001 (document AO4)   |
|  | AS | <u>67</u> | English translation of JP 63-115564, translated by Translation Services PTY Ltd, translation dated March 13, 2001 (document AM5)  |
|  | AT | <u>67</u> | English translation of the first full paragraph on page 28 of Afra, D., <i>et al.</i> , "Experimentelle Untersuchung der Resorption von Fibrinfilmen und ihre Anwendung in der neurochirurgischen Praxis", <i>Acta Med. Acad. Sci. Hung.</i> 11:1-29, Hungarian Academy of Sciences (1958), translated by McElroy Translation Company (dated August 24, 2001) |

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|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|    |           |  |
|----|-----------|--|
| AR | <u>68</u> | English translation of the second-fifth paragraphs on page 852 of Bagdy, D., <i>et al.</i> , "Experimentelle und klinische Anwendung der aus Rinderplasma hergestellten Fibrinprodukte," <i>Zentralblatt für Chirurgie</i> 77:848-852, Vereinigung Mittelrheinischer Chirurgen (1952), translated by McElroy Translation Company (dated August 24, 2001) |
| AS | <u>68</u> | English translation of the fourth-sixth paragraphs on page 152 and the sixth paragraph on page 184 of Bagdy D., <i>et al.</i> , in <i>Trombin-Fibrinprodukte und Ihre Therapeutische Anwendung</i> , pp. 152-159, 184-187, Veb Gustav Fischer Verlag Jena (1963), translated by McElroy Translation Company (dated August 24, 2001)                      |
| AT | <u>68</u> | English translation of the first full column at page 219 of István, L., <i>et al.</i> , "Gastrointestinalis vérzések csillapítása thrombin-fibrin készítménnyel," <i>Orv. Hetil.</i> 105:219-223, Markusovszky Lajos Foundation (1964), translated by McElroy Translation Company (dated August 24, 2001)  |

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|                     | AL |                 |      |         |       |           | Yes<br>No   |
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|--|----|-----------|---|
|  | AR | <u>69</u> | English translation of the third-fourth paragraphs on page 615 of Stoll, H.G., "Koagulum-Pyelolithotomie," <i>Zeitschrift für Urologie</i> 52:610-615, Veb Georg Thieme Leipzig (1959), translated by McElroy Translation Company (August 24, 2001) |
|  | AS | <u>69</u> | Co-pending U.S. Application No. 08/474,078, inventors MacPhee, M.J., <i>et al.</i> , filed June 7, 1995 (NOT PUBLISHED)   |
|  | AT | <u>69</u> |   |

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/Lakshmi Channavajjala/

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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |           |  |
|--|----|-----------|--|
|  | AR | <u>70</u> | Berguer, R., <i>et al.</i> , "Warning: Fatal Reaction to the Use of Fibrin Glue in Deep Hepatic Wounds. Case Reports," <i>J. Trauma</i> 31:408-411, Williams & Wilkens Company (1991)  |
|  | AS | <u>70</u> | Cziperle, D., <i>et al.</i> , "Enhanced Endothelialization of Expanded Polytetrafluoroethylene Grafts by Heparin Binding Growth Factor-Type 1 (HBGF-1) Pretreatment," presented at the Society of University Surgeons (1992) |
|  | AT | <u>70</u> | de la Garza, J.L. and Rumsey Jr., E., "Fibrin Glue and Hemostasis in Liver Trauma: A Case Report," <i>J. Trauma</i> 30:512-513, Williams & Wilkens Company (1990)  |

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|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

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|  |    |           |  |
|--|----|-----------|--|
|  | AR | <u>71</u> | Jakob, H., <i>et al.</i> , "Use of fibrin sealant for reinforcing arterial anastomoses," <i>J. Vasc. Surg.</i> 1:171-180, C.V. Mosby Company (1984)  |
|  | AS | <u>71</u> | Kendrick, D.B., <i>et al.</i> , "Plasma Fractionation," in <i>Blood Program in World War II</i> , Coates, Jr., J.B. and McFetridge, E.M., eds., Office of the Surgeon General, Dept. of the Army, Washington, D.C., pp. 363-369 (1964) |
|  | AT | <u>71</u> | Kram, H.B., <i>et al.</i> , "Techniques of Splenic Preservation Using Fibrin Glue," <i>J. Trauma</i> 30:97-101, Williams & Wilkens Company (1990)  |

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|  |    |           |   |
|--|----|-----------|---|
|  | AR | <u>72</u> | Ochsner, M.G., <i>et al.</i> , "Fibrin Glue as a Hemostatic Agent in Hepatic and Splenic Trauma," <i>J. Trauma</i> 30:884-887, Williams & Wilkens Company (1990)        |
|  | AS | <u>72</u> | Matthew, T.L., <i>et al.</i> , "Four Years' Experience With Fibrin Sealant in Thoracic and Cardiovascular Surgery," <i>Ann. Thorac. Surg.</i> 50:40-44, Elsevier (1990) |
|  | AT | <u>72</u> | Ness, P.M., <i>et al.</i> , "Cryoprecipitate as a Reliable Source of Fibrinogen Replacement," <i>JAMA</i> 241:1690-1691, American Medical Association (1979)            |

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|---------------------|----|-----------------|------|---------|-------|-----------|-------------|
|                     | AL |                 |      |         |       |           | Yes<br>No   |
|                     | AM |                 |      |         |       |           | Yes<br>No   |
|                     | AN |                 |      |         |       |           | Yes<br>No   |
|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

|  |    |           |   |
|--|----|-----------|---|
|  | AR | <u>73</u> | Rapaport, S.I., <i>et al.</i> , "Clinical Significance of Antibodies to Bovine and Human Thrombin and Factor V After Surgical Use of Bovine Thrombin," <i>Am. J. Clin. Pathol.</i> 97:84-91, J.B. Lippincott Company (1992) |
|  | AS | <u>73</u> | Reiss, R.F., and Oz, M.C., "Autologous Fibrin Glue: Production and Clinical Use," <i>Transfus. Med. Rev.</i> 10:85-92, W.B. Saunders Company (1996)   |
|  | AT | <u>73</u> | Rocko, J.M., <i>et al.</i> , "A.A.S.T. Abstracts: Exsanguination in public - a preventable death," <i>J. Trauma</i> 22:635, Williams & Wilkins Company (1982)   |

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /L.C./

FORM PTO-1449

**FIRST SUPPLEMENTAL INFORMATION DISCLOSURE  
STATEMENT**ATTY. DOCKET NO.  
1327.0690001/ELE/LAVAPPLICATION NO.  
10/525,415 (U.S. National Phase  
of PCT/US2003/028100, Filed  
September 9, 2003)FIRST NAMED INVENTOR  
MacPhee, MartinFILING DATE  
January 10, 2006ART UNIT  
2811**U.S. PATENT DOCUMENTS**

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|                     | AA |                 |      |      |       |           |             |
|                     | AB |                 |      |      |       |           |             |
|                     | AC |                 |      |      |       |           |             |
|                     | AD |                 |      |      |       |           |             |
|                     | AE |                 |      |      |       |           |             |
|                     | AF |                 |      |      |       |           |             |
|                     | AG |                 |      |      |       |           |             |
|                     | AH |                 |      |      |       |           |             |
|                     | AI |                 |      |      |       |           |             |
|                     | AJ |                 |      |      |       |           |             |
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|                     | AO |                 |      |         |       |           | Yes<br>No   |
|                     | AP |                 |      |         |       |           | Yes<br>No   |

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

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| AR | <u>74</u> | Schiele, U., <i>et al.</i> , "Haemostyptic Preparations on the Basis of Collagen alone and as fixed Combination with Fibrin Glue," <i>Clin. Mater.</i> 9:169-177, Elsevier Science Publishers, Ltd. (1992) |
| AS | <u>74</u> | Sloand, E.M., <i>et al.</i> , "Safety of the Blood Supply," <i>JAMA</i> 274:1368-1373, American Medical Association (1995)   |
| AT | <u>74</u> | Spotnitz, W.D., "Fibrin Sealant in the United States: Clinical Use at the University of Virginia," <i>Thromb. Haemost.</i> 74:482-485, Stuttgart F.K. Schattauer Verlag (1995)                             |

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|  | AS |           |   |
|  | AT |           |   |

EXAMINER /Lakshmi Channavajjala/

DATE CONSIDERED 03/29/2009

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